

Title (en)
DRILL

Title (de)
BOHRER

Title (fr)
FORET

Publication
EP 3445519 A1 20190227 (DE)

Application
EP 17718073 A 20170419

Priority
• EP 16166311 A 20160421
• EP 2017059220 W 20170419

Abstract (en)
[origin: WO2017182487A1] The invention relates to a drill for the removal of mineral materials, comprising a drill head (2), a coil (3), an insertion end (4) and an impact surface (7) arranged successively on a longitudinal axis (6), with said impact surface being arranged on an end face of the insertion end (4) facing away from the drill head (2) for receiving impacts along an impact direction (8). Th drill head (2) has at least two cutting edges (13) and at leas two blades (20). The cutting edges (13) each have a cutting surface (16) and a free surface (17). The blades (20) run parallel to the longitudinal axis (6) and border the cutting edges (13). The blades (20) each have a radially protruding peak (24), which borders the cutting surface (16) and does not or only partially borders the free surface (17). An axial dimension (29) of the peak (24) is less than an axial dimension (25) of the blade (20).

IPC 8 full level
B23B 51/02 (2006.01); **B28D 1/14** (2006.01)

CPC (source: EP US)
B23B 51/02 (2013.01 - EP); **B28D 1/146** (2013.01 - EP); **E21B 10/445** (2013.01 - US); **B23B 2200/121** (2013.01 - EP);
B23B 2226/75 (2013.01 - EP); **B23B 2251/44** (2013.01 - EP)

Citation (search report)
See references of WO 2017182487A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3235581 A1 20171025; CN 108883477 A 20181123; CN 108883477 B 20200915; EP 3445519 A1 20190227; EP 3445519 B1 20221109;
US 10947788 B2 20210316; US 2020122244 A1 20200423; WO 2017182487 A1 20171026

DOCDB simple family (application)
EP 16166311 A 20160421; CN 201780020331 A 20170419; EP 17718073 A 20170419; EP 2017059220 W 20170419;
US 201716095174 A 20170419